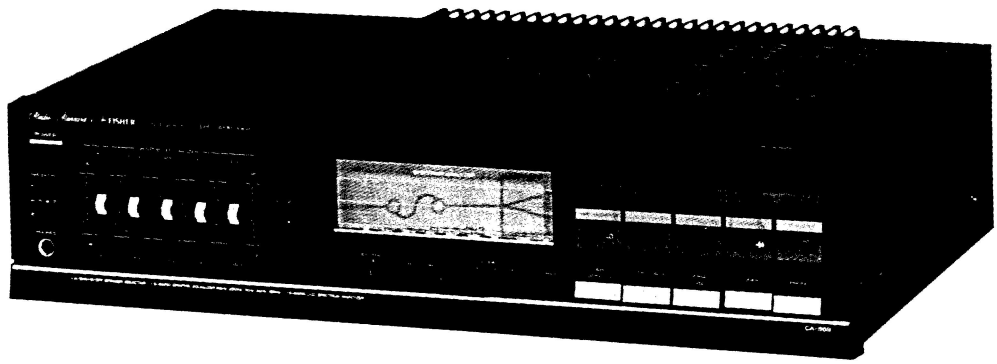
SERVICE MANUAL

FISHER

INTEGRATED STEREO AMPLIFIER

CA-869

(EUROPE)



132 299 42

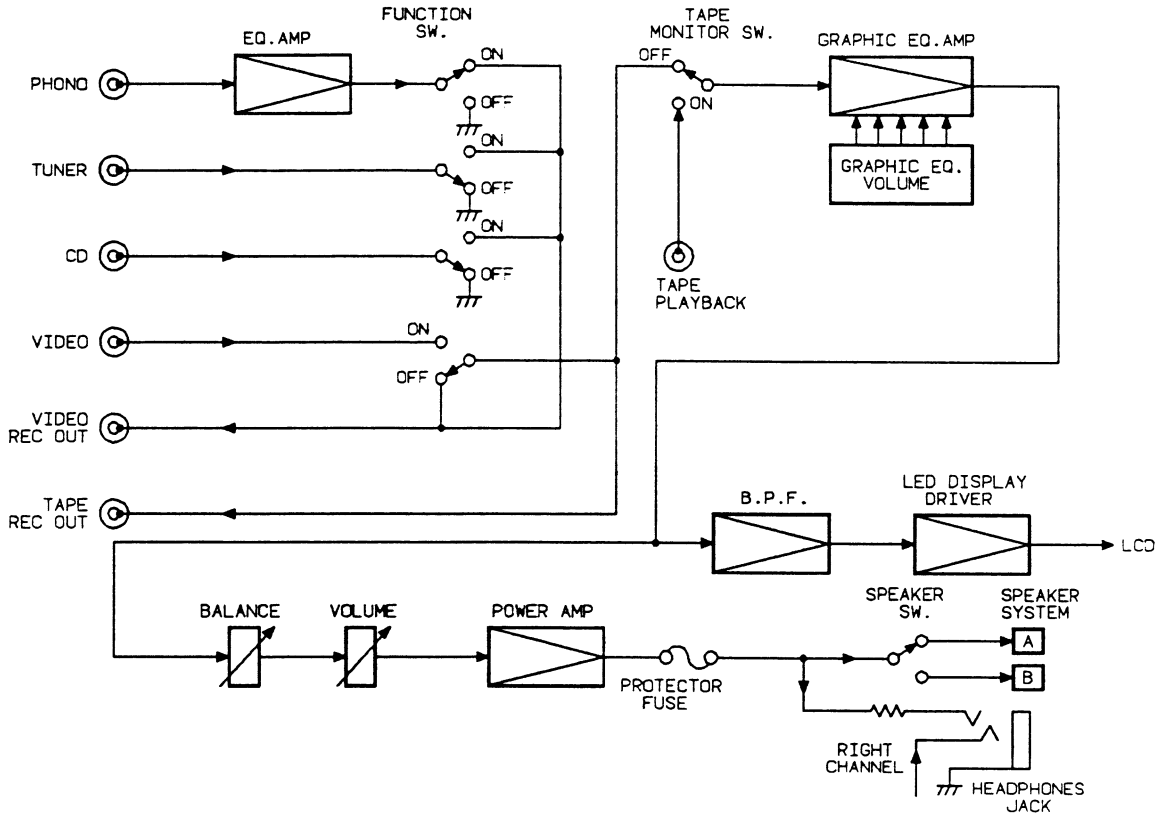
SPECIFICATIONS

POWER AMPLIFIER SECTION	
Minimum RMS sine wave power per channel within stated bandwidth at no more than stated distortion and with 8-ohm load	100 Watts
Power Bandwidth	20 Hz – 20 kHz
Total Harmonic Distortion	0.09 %
I.M. Distortion	0.09 %
Speaker Damping	> 20
PREAMPLIFIER SECTION	
Frequency Response	
Phono (RIAA)	±1 dB
Aux (20 Hz – 20 kHz)	±1 dB
Input Sensitivity and Impedance	
Phono	2.5 mV/50 kΩ
Tape Monitor	150 mV/50 kΩ
Tuner/Video/CD	150 mV/50 kΩ
Phono Max. Input Capability	150 mV
Graphic Equalizer	
63Hz	±10 dB
250Hz	±10 dB
1KHz	±10 dB
4KHz	±10 dB
16KHz	±10 dB
Loudness Contour (100 Hz/10 kHz)	+8 dB/+4 dB
Hum & Noise (IHF Short Circuit, A Network)	
Phono	65 dB
Tape Monitor	85 dB
Tuner/Video/CD	85 dB
GENERAL	
Power Requirements (50 Hz)	110/220 VAC
Power Consumption	510 Watts
Dimensions (W x H x D)	440 x 108 x 315 mm
Weight (approx.)	8.0 kg

– Specifications and design are subject to change without notice.–

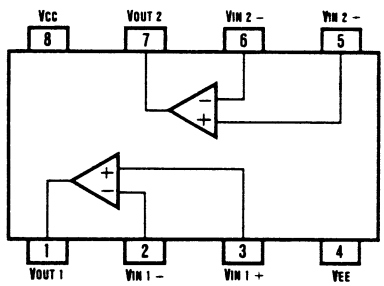
REFERENCE No. WM-19670

FUNCTIONAL BLOCK DIAGRAM

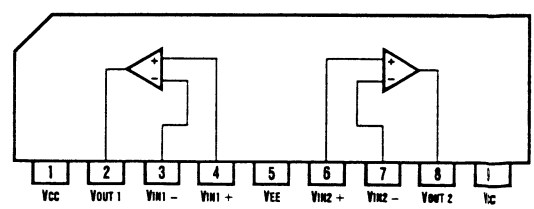


INTEGRATED CIRCUIT BLOCK DIAGRAM

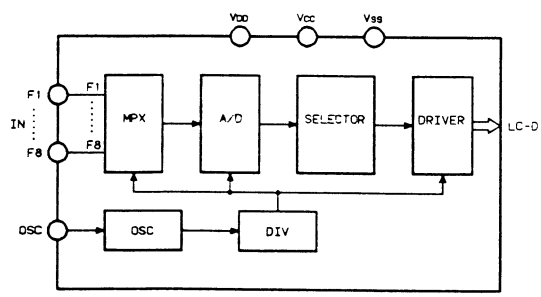
PHONO EQ. AMP IC LA 6458 DS



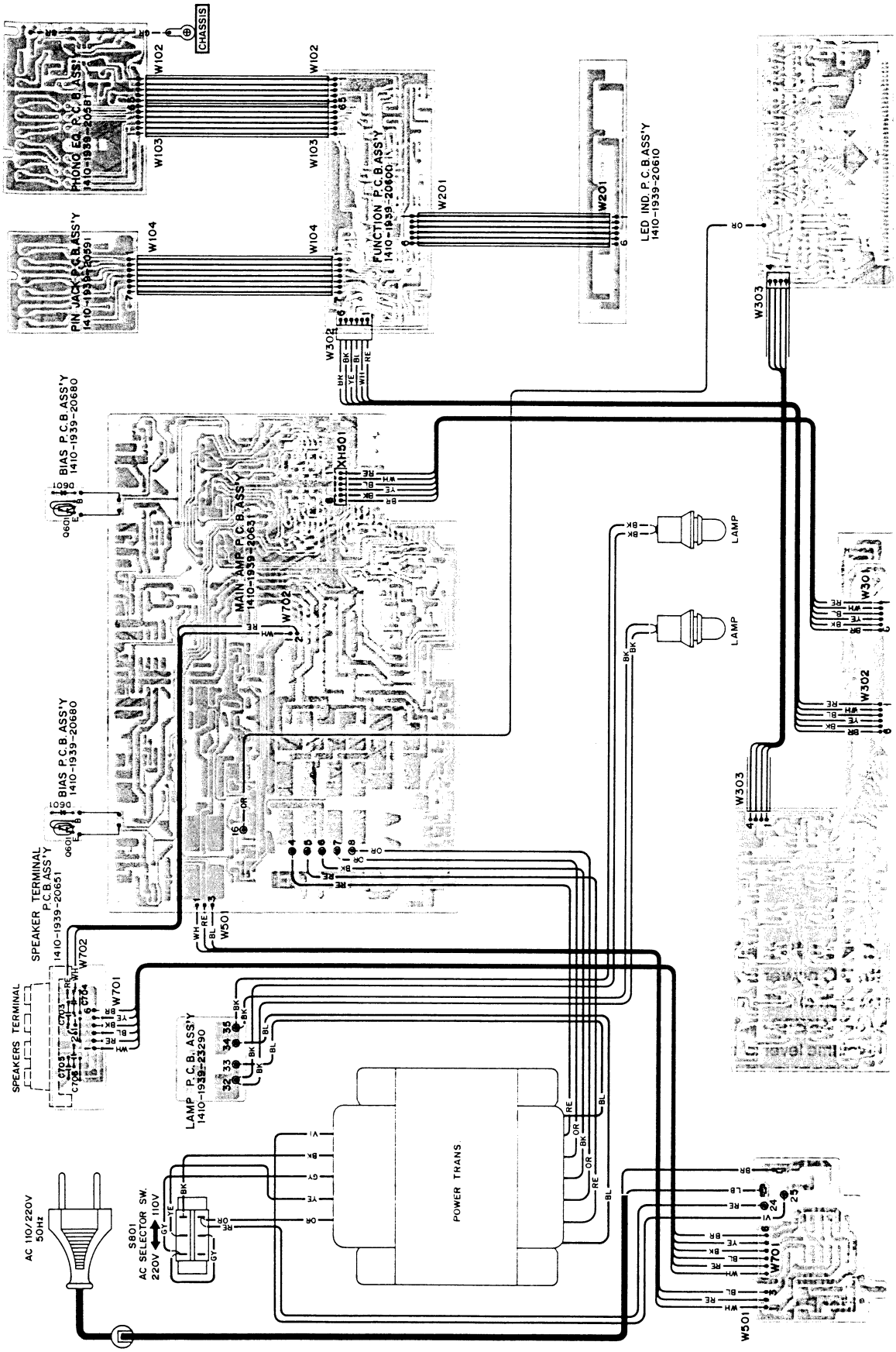
GRAPHIC EQ. AMP/B.P.F. IC LA 6458 SS



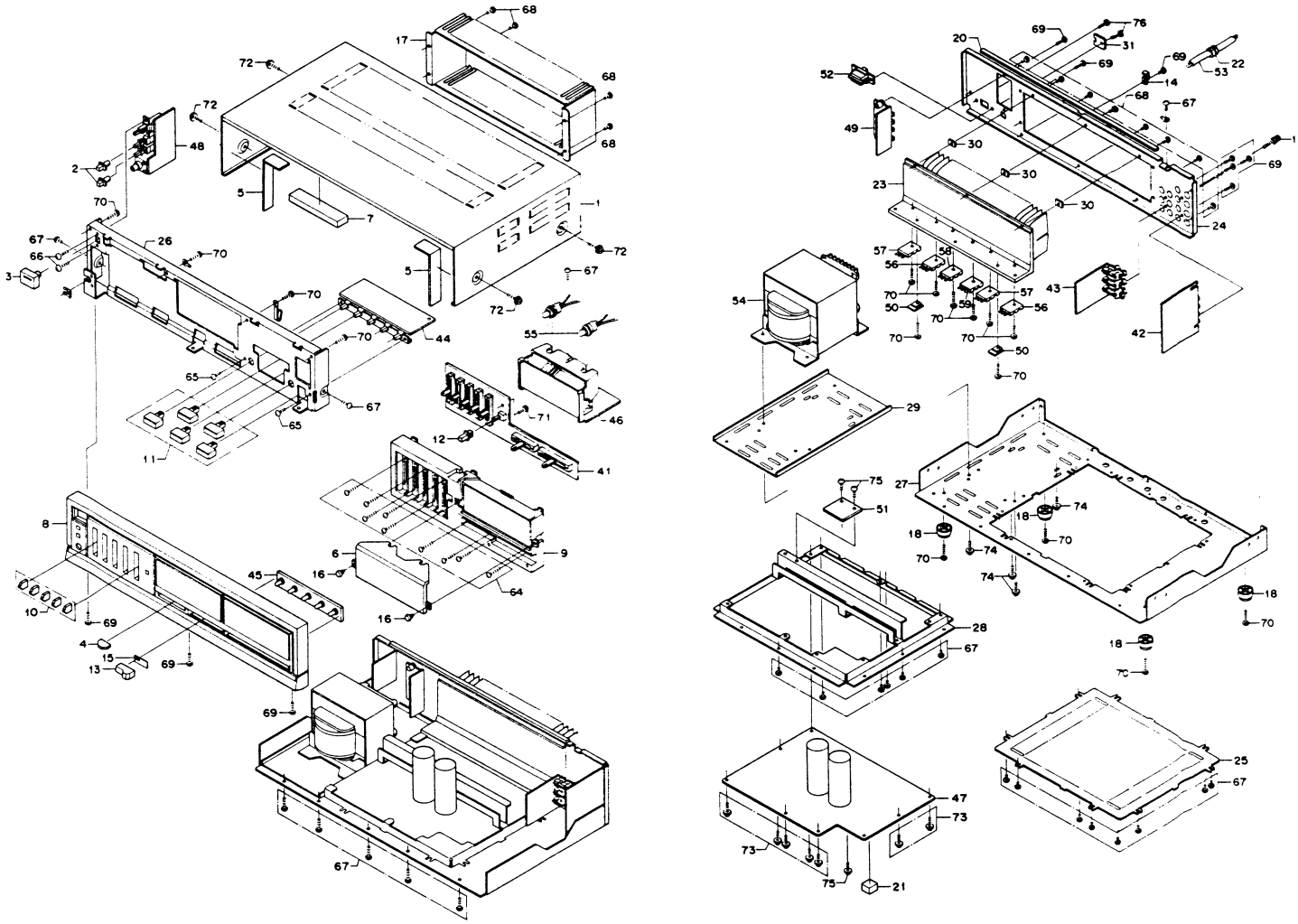
LCD DISPLAY DRIVER IC LC 7561



POINT TO POINT WIRING DIAGRAM



CABINET & CHASSIS EXPLODED VIEW



POWER AMPLIFIER ADJUSTMENT

BEFORE ADJUSTMENT

Unplug the AC power cord and set the front panel controls as follows:

- Power switch to OFF position.
- Set the SPEAKERS switch to the OFF position.
- Set the volume level to minimum level by Pressing the VOLUME DOWN button.
- IDLING CURRENT ADJUSTMENT VR501/VR502 (on the Main Amplifier P.C.Board) setting to mechanical center position.
- Connect the AC power cord and Power Switch to the ON position.

IDLING CURRENT ADJUSTMENT

This adjustment is very sensitive to changes in ambient temperature. Allow set to operate for 2 minutes before attempting this alignment.

LEFT AMPLIFIER

1) Connect the DC Voltmeter between Pins 19 and 21 on the Main Amplifier P.C.Board.
2) Adjust the VR501 for an indication of 9mV (7mV ~ 15mV) on the DC Voltmeter.

RIGHT AMPLIFIER

1) Connect the DC Voltmeter between Pins 20 and 22 on the Main Amplifier P.C.Board.
2) Adjust the VR502 for an indication of 9mV (7mV ~ 15mV) on the DC Voltmeter.

CABINET & CHASSIS PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

Ref. No.	Part No.	Description	Q'ty
	PACKAGE		
	3-9415-10300	Bag Polyethylene	1
	131-6-3009-36090	Pad	1
	131-6-3009-36420	Pad	1
	131-6-3069-16350	Patching Sheet	1
	131-6-4559-11200	Serial No. Sheet	2
	141-6-1189-28501	Box Corrugate-exp	1
	141-6-1469-11700	Pad (Front)	1
	141-6-1469-11800	Pad (Rear)	1
	141-6-2519-22290	Sheet Polyethylene	1
	131-6-3009-36700	Pad	2
	ACCESSORIES		
	131-6-2719-10401	Bag Fan	1
	142-6-4119-33419	Explanatory Booklet	1
	CABINET		
	4-2379-21520	Terminal Lug	1
	131-6-4559-11200	Serial No. Sheet	1
	141-2-4729-04200	Lug	1
	141-2-4729-07100	Wire Band	9
1	131-2-1410-35400	Cover	1
2	131-2-1601-69601	Knob (Speaker Selector)	2
3	131-2-1601-93303	Knob (Power)	1
4	131-2-1601-93400	Knob (Balance)	1
5	131-2-3202-13400	Metal Reinforce	2
6	131-2-3608-16409	Filter	1
7	131-2-5205-33300	Cushion	1
8	141-0-1129-25008	Cabinet Front Assy	1
	141-2-1129-52001	Cabinet Front	1
	141-2-1319-52300	Window	1
	141-2-1449-61297	Plate Front	1
	141-2-1449-65012	Plate Decorate	1
	141-2-2449-58400	Shelter Slide Volume	1
	131-2-6113-53300	Shelter	1
9	141-0-3519-26800	Mount P.C.B. Assy	1
	141-2-3519-84600	Mount P.C.B.	1
	141-2-1449-65110	Screen LCD	1
	141-2-3229-62500	Plate Shield	1
	4-2359-79034	Connector 1P Assy	1
10	141-2-1659-35900	Knob (Equalizer)	5
11	141-2-1659-63400	Knob (Function)	5
12	141-2-1659-63500	Knob (Loudness)	1
13	141-2-1659-63601	Knob (Volume)	1
14	141-2-3159-03300	Bracket Cover	1
15	141-2-4469-55500	Cushion	1
16	131-2-4221-00600	Rivet	2
17	131-2-1410-34838	Cover Heat Sink	1
18	131-2-1801-14100	Leg	4
19	131-2-4201-17800	Screw Ground	1
20	131-2-5205-15800	Cushion	1
21	131-2-5205-35900	Cushion	1
22	131-2-6111-14200	Bushing (4N-4)	1
23	131-2-6201-38500	Heat Sink	1
24	141-2-1219-40907	Panel Rear	1
25	141-2-1259-11200	Bottom Cover	1
26	141-2-2149-31200	Panel Front	1
27	141-2-3119-31600	Chassis	1
28	141-2-3129-06600	Sub Chassis	1
29	141-2-3159-05800	Metal Reinforce	1
30	141-2-4359-41200	Plate Sever	3
31	131-2-7104-00500	Plate Pad Switch	1
41	141-0-1939-20570	Graphic EQ. P.C.B. Assy	1
42	141-0-1939-20581	Phono EQ. P.C.B. Assy	1
43	141-0-1939-20591	Pin Jack P.C.B. Assy	1
44	141-0-1939-20600	Function P.C.B.Assy	1
45	141-0-1939-20610	LED Ind. P.C.B. Assy	1
46	141-0-1939-20620	Spectrum Analyzer P.C.B. Assy	1
47	141-0-1939-20631	Main Amp. P.C.B. Assy	1
48	141-0-1939-20641	Power SW. P.C.B. Assy	1
49	141-0-1939-20651	Speaker Terminal P.C.B. Assy	1
50	141-0-1939-20680	Bias P.C.B. Assy	2
51	141-0-1939-23290	Lamp P.C.B. Assy	1
52	⚠ 4-2312-01020	SW Slide (AC Selector) [S801]	1
53	⚠ 4-2432-00400	Power Cord	1
54	⚠ 4-2512-25021	Power Trans	1
55	4-6129-70724	Lamp	2
56	405 033 3309	TR 2SC3280-R [Q515, Q516]	1
or	405 033 7208	TR 2SD1717-Q [Q515, Q516]	1
57	405 031 2106	TR 2SA1301-R [Q517, Q518]	1
or	405 031 8801	TR 2SB1162-Q [Q517, Q518]	1
58	405 031 2205	TR 2SA1302-R [Q545]	1
59	405 017 7903	TR 2SC3281-R [Q546]	1
64	411 039 1102	SCR PAN 2X4	9
65	411 002 8503	SCR PAN 3X6	2
66	411 003 8908	SCR PAN+SW 3X6	2
67	411 020 7700	SCR S-TPG BRZ 3X6	23
68	411 099 9704	SCR S-TPG BRZ 3X6	12
69	411 099 9803	SCR S-TPG BRZ 3X8	10
70	411 020 5904	SCR S-TPG BRZ 3X10	16
71	411 020 5706	SCR S-TPG BRZ 2.6X8	1
72	141-2-4219-38400	+BTS-B 4X8 Sems BLK	4
73	131-2-4201-25201	+BRTS-B Sems 3X8 Z	7
74	141-2-4219-43300	+BTS-C M4X10 Sems	4
75	411 020 8004	SCR S-TPG BRZ 3X8	3
76	411 002 9104	SCR PAN 3X8	2

NOTES:

1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	GRAPHIC EQ. P.C.B. ASSY		
41	141-0-1939-20570	Graphic EQ. P.C.B. Assy	1
W301	4-2352-02209	Connector 6P Assy	1
W302	4-2352-02205	Connector 6P Assy	1
S301	4-2319-77780	SW Push 1 Key (Loudness)	1
VR301	4-2229-76930	Slide VR (SW-250kΩx2, 63Hz)	1
VR302	4-2229-76930	Slide VR (SW-250kΩx2, 250Hz)	1
VR303	4-2229-76930	Slide VR (SW-250kΩx2, 1kHz)	1
VR304	4-2229-76930	Slide VR (SW-250kΩx2, 4kHz)	1
VR305	4-2229-76930	Slide VR (SW-250kΩx2, 16kHz)	1
VR306	4-2229-75980	Slide VR (W-200kΩ, Balance)	1
VR307	4-2229-76220	Slide VR (A-100kΩx2, Volume)	1
IC301	409 018 5104	IC LA6458SS	1
Q301	405 019 1909	TR 2SC536-E-NP	1
Q302	405 019 1909	TR 2SC536-E-NP	1
Q303	405 019 1909	TR 2SC536-E-NP	1
Q304	405 019 1909	TR 2SC536-E-NP	1
Q305	405 019 1909	TR 2SC536-E-NP	1
Q306	405 019 1909	TR 2SC536-E-NP	1
Q307	405 019 1909	TR 2SC536-E-NP	1
Q308	405 019 1909	TR 2SC536-E-NP	1
Q309	405 019 1909	TR 2SC536-E-NP	1
Q310	405 019 1909	TR 2SC536-E-NP	1
C301	403 049 2002	ELECT 1U M 50V	1
C302	403 049 2002	ELECT 1U M 50V	1
C303	403 009 8105	CERAMIC 100P K 50V	1
C304	403 009 8105	CERAMIC 100P K 50V	1
C305	403 031 0306	CERAMIC 68P K 50V	1
C306	403 031 0306	CERAMIC 68P K 50V	1
C307	403 008 5204	CERAMIC 10P D 50V	1
C308	403 008 5204	CERAMIC 10P D 50V	1
C309	403 042 0807	ELECT 10U M 16V	1
C310	403 042 0807	ELECT 10U M 16V	1
C311	403 047 1809	ELECT 4.7U M 25V	1
C312	403 047 1809	ELECT 4.7U M 25V	1
C313	403 050 1209	ELECT 2.2U M 50V	1
C314	403 050 1209	ELECT 2.2U M 50V	1
C315	403 060 2807	POLYESTER 0.027U K 50V	1
C316	403 060 2807	POLYESTER 0.027U K 50V	1
C317	403 048 7602	ELECT 0.47U M 50V	1
C318	403 048 7602	ELECT 0.47U M 50V	1
C319	403 057 0908	POLYESTER 0.01U K 50V	1
C320	403 057 0908	POLYESTER 0.01U K 50V	1
C321	403 067 8406	MT-COMPO 0.082U J 50V	1
C322	403 067 8406	MT-COMPO 0.082U J 50V	1
C323	403 061 8709	POLYESTER 4700P K 50V	1
C324	403 061 8709	POLYESTER 4700P K 50V	1
C325	403 059 6601	POLYESTER 0.022U K 50V	1
C326	403 059 6601	POLYESTER 0.022U K 50V	1
C327	403 058 1607	POLYESTER 1500P K 50V	1
C328	403 058 1607	POLYESTER 1500P K 50V	1
C329	403 061 8709	POLYESTER 4700P K 50V	1
C330	403 061 8709	POLYESTER 4700P K 50V	1
C331	403 031 2805	CERAMIC 680P K 50V	1
C332	403 031 2805	CERAMIC 680P K 50V	1
C333	403 023 5807	CERAMIC 330P K 50V	1
C334	403 023 5807	CERAMIC 330P K 50V	1
C335	403 067 7706	MT-COMPO 0.047U J 50V	1
C336	403 067 7706	MT-COMPO 0.047U J 50V	1
C337	403 044 0706	ELECT 47U M 16V	1
C338	403 044 0706	ELECT 47U M 16V	1
R301	401 025 1605	CARBON 1.5K JA 1/6W	1
R302	401 025 1605	CARBON 1.5K JA 1/6W	1
R303	401 027 3003	CARBON 56K JA 1/6W	1
R304	401 027 3003	CARBON 56K JA 1/6W	1
R305	401 026 4308	CARBON 3.3K JA 1/6W	1
R306	401 026 1000	CARBON 2.7K JA 1/6W	1
R307	401 026 1000	CARBON 2.7K JA 1/6W	1
R308	401 026 1000	CARBON 2.7K JA 1/6W	1
R309	401 026 1000	CARBON 2.7K JA 1/6W	1
R310	401 026 4308	CARBON 3.3K JA 1/6W	1
R311	401 026 9907	CARBON 4.7K JA 1/6W	1
R312	401 026 9907	CARBON 4.7K JA 1/6W	1
R313	401 027 5205	CARBON 680 JA 1/6W	1
R314	401 027 5205	CARBON 680 JA 1/6W	1
R315	401 025 8703	CARBON 220K JA 1/6W	1
R316	401 025 8703	CARBON 220K JA 1/6W	1
R317	401 026 6609	CARBON 390 JA 1/6W	1
R318	401 027 2600	CARBON 5.6K JA 1/6W	1
R319	401 027 2600	CARBON 5.6K JA 1/6W	1
R320	401 026 6609	CARBON 390 JA 1/6W	1
R321	401 024 7004	CARBON 1K JA 1/6W	1
R322	401 024 7004	CARBON 1K JA 1/6W	1
R323	401 024 7707	CARBON 100K JA 1/6W	1
R324	401 024 7707	CARBON 100K JA 1/6W	1
R325	401 026 6609	CARBON 390 JA 1/6W	1
R326	401 027 2600	CARBON 5.6K JA 1/6W	1
R327	401 027 2600	CARBON 5.6K JA 1/6W	1
R328	401 026 6609	CARBON 390 JA 1/6W	1
R329	401 024 9305	CARBON 1.2K JA 1/6W	1
R330	401 024 9305	CARBON 1.2K JA 1/6W	1
R331	401 027 0309	CARBON 47K JA 1/6W	1
R332	401 027 0309	CARBON 47K JA 1/6W	1
R335	401 026 6609	CARBON 390 JA 1/6W	1
R336	401 027 2600	CARBON 5.6K JA 1/6W	1
R337	401 027 2600	CARBON 5.6K JA 1/6W	1
R338	401 026 6609	CARBON 390 JA 1/6W	1
R339	401 024 9305	CARBON 1.2K JA 1/6W	1
R340	401 024 9305	CARBON 1.2K JA 1/6W	1
R341	401 026 7408	CARBON 39K JA 1/6W	1
R342	401 026 7408	CARBON 39K JA 1/6W	1
R343	401 026 6609	CARBON 390 JA 1/6W	1
R344	401 027 2600	CARBON 5.6K JA 1/6W	1
R345	401 027 2600	CARBON 5.6K JA 1/6W	1
R346	401 026 6609	CARBON 390 JA 1/6W	1
R347	401 024 9305	CARBON 1.2K JA 1/6W	1
R348	401 024 9305	CARBON 1.2K JA 1/6W	1
R349	401 026 1307	CARBON 27K JA 1/6W	1
R350	401 026 1307	CARBON 27K JA 1/6W	1
R351	401 026 6609	CARBON 390 JA 1/6W	1
R352	401 027 2600	CARBON 5.6K JA 1/6W	1
R353	401 027 2600	CARBON 5.6K JA 1/6W	1
R354	401 026 6609	CARBON 390 JA 1/6W	1
R355	401 025 1605	CARBON 1.5K JA 1/6W	1
R356	401 025 1605	CARBON 1.5K JA 1/6W	1
R357	401 026 9907	CARBON 4.7K JA 1/6W	1
R358	401 026 9907	CARBON 4.7K JA 1/6W	1
R359	401 024 7707	CARBON 100K JA 1/6W	1
R360	401 024 7707	CARBON 100K JA 1/6W	1
R361	401 025 4200	CARBON 1.8K JA 1/6W	1
R363	401 019 9600	CARBON 47 JA 1/4W	1
R364	401 019 9600	CARBON 47 JA 1/4W	1
	PHONO EQ. P.C.B. ASSY		
42	141-0-1939-20581	Phono EQ. P.C.B. Assy	1
	4-2352-01700	Pin Jack 4P (PHOTO,TUNER) (CD,VIDEO/AUX)	2
	4-2359-78835	Connector 1P Assy	1
IC101	409 018 4503	IC LA6458DS	1
C101	403 023 5807	CERAMIC 330P K 50V	1
C102	403 023 5807	CERAMIC 330P K 50V	1
C103	403 047 1502	ELECT 4.7U M 25V	1
C104	403 047 1502	ELECT 4.7U M 25V	1

P.C.BOARD PARTS LIST(Continued)

Ref. No.	Part No.	Description	Q'ty
C105	403 039 2906	ELECT 47U M 6.3V	1
C106	403 039 2906	ELECT 47U M 6.3V	1
C107	403 018 8509	CERAMIC 220P K 50V	1
C108	403 018 8509	CERAMIC 220P K 50V	1
C109	403 059 0401	POLYESTER 0.018U K 50V	1
C110	403 059 0401	POLYESTER 0.018U K 50V	1
C111	403 061 8709	POLYESTER 4700P K 50V	1
C112	403 061 8709	POLYESTER 4700P K 50V	1
C113	403 049 1609	ELECT 1U M 50V	1
C114	403 049 1609	ELECT 1U M 50V	1
C115	403 047 4206	ELECT 47U M 25V	1
C116	403 047 4206	ELECT 47U M 25V	1
C117	403 074 2701	CERAMIC 0.047U Z 50V	1
C118	403 018 8509	CERAMIC 220P K 50V	1
C119	403 018 8509	CERAMIC 220P K 50V	1
C120	403 018 8509	CERAMIC 220P K 50V	1
C121	403 018 8509	CERAMIC 220P K 50V	1
C122	403 018 8509	CERAMIC 220P K 50V	1
C123	403 018 8509	CERAMIC 220P K 50V	1
C124	403 018 8509	CERAMIC 220P K 50V	1
C135	403 018 8509	CERAMIC 220P K 50V	1
R101	401 025 1605	CARBON 1.5K JA 1/6W	1
R102	401 025 1605	CARBON 1.5K JA 1/6W	1
R103	401 024 7707	CARBON 100K JA 1/6W	1
R104	401 024 7707	CARBON 100K JA 1/6W	1
R105	401 024 7707	CARBON 100K JA 1/6W	1
R106	401 024 7707	CARBON 100K JA 1/6W	1
R107	401 026 3905	CARBON 330 JA 1/6W	1
R108	401 026 3905	CARBON 330 JA 1/6W	1
R109	401 025 8703	CARBON 220K JA 1/6W	1
R110	401 025 8703	CARBON 220K JA 1/6W	1
R111	401 025 1902	CARBON 15K JA 1/6W	1
R112	401 025 1902	CARBON 15K JA 1/6W	1
R113	401 024 7707	CARBON 100K JA 1/6W	1
R114	401 024 7707	CARBON 100K JA 1/6W	1
R115	401 025 7805	CARBON 2.2K JA 1/6W	1
R116	401 025 7805	CARBON 2.2K JA 1/6W	1
R117	401 024 7004	CARBON 1K JA 1/6W	1
R118	401 024 7004	CARBON 1K JA 1/6W	1
R119	401 024 7004	CARBON 1K JA 1/6W	1
R120	401 024 7004	CARBON 1K JA 1/6W	1
R121	401 024 7004	CARBON 1K JA 1/6W	1
R122	401 024 7004	CARBON 1K JA 1/6W	1
R123	401 015 1608	CARBON 180 JA 1/4W	1
R124	401 015 1608	CARBON 180 JA 1/4W	1
	PIN JACK P.C.B. ASSY		
43	141-0-1939-20591	Pin Jack P.C.B. Assy	1
	4-2352-01780	Pin Jack 6P (Tape, Video)	1
C129	403 018 8509	CERAMIC 220P K 50V	1
C130	403 018 8509	CERAMIC 220P K 50V	1
C131	403 018 8509	CERAMIC 220P K 50V	1
C132	403 018 8509	CERAMIC 220P K 50V	1
C133	403 018 8509	CERAMIC 220P K 50V	1
C134	403 018 8509	CERAMIC 220P K 50V	1
R125	401 024 7004	CARBON 1K JA 1/6W	1
R126	401 024 7004	CARBON 1K JA 1/6W	1
R127	401 024 7004	CARBON 1K JA 1/6W	1
R128	401 024 7004	CARBON 1K JA 1/6W	1
R129	401 024 7004	CARBON 1K JA 1/6W	1
R130	401 024 7004	CARBON 1K JA 1/6W	1
	FUNCTION P.C.B. ASSY		
44	141-0-1939-20600	Function P.C.B.Assy	1
W302	4-2369-76670	Plug 6P	1
S201	4-2319-79660	Push SW 5 Key (Tape Monitor, Function)	1

Ref. No.	Part No.	Description	Q'ty
R201	401 093 5109	OXIDE-MT 820 JB 1/2W	1
R202	401 014 4105	CARBON 1.5K JA 1/4W	1
	LED IND. P.C.B. ASSY		
45	141-0-1939-20610	LED Ind. P.C.B. Assy	1
	131-2-4208-28000	Spacer	5
D201	407 063 1805	LED SLR-54PT3 (Phono)	1
D202	407 063 1805	LED SLR-54PT3 (Tuner)	1
D203	407 063 1805	LED SLR-54PT3 (CD)	1
D204	407 063 1805	LED SLR-54PT3 (Video/Aux)	1
D205	407 063 2109	LED SLR-54VT3 (Tape Monitor)	1
	SPECTRUM ANALYZER P.C.B. ASSY		
46	141-0-1939-20620	Spectrum Analyzer P.C.B. Assy	1
	131-2-6306-12100	Reflector	1
	131-2-6308-25800	Filter LCD	1
	411 021 2704	SCR S-TPG BIN 2.6X6	2
W303	4-2352-02650	Socket Jumper 4P	1
D401	407 008 0405	DIODE GMB01-BT	1
D403	407 008 0405	DIODE GMB01-BT	1
D404	407 008 0405	DIODE GMB01-BT	1
D405	407 008 0405	DIODE GMB01-BT	1
D406	407 008 0405	DIODE GMB01-BT	1
D407	407 008 0405	DIODE GMB01-BT	1
LCD1	4-9549-70120	LCD, FTD6497	1
IC401	409 018 5104	IC LA6458SS	1
IC403	409 018 5104	IC LA6458SS	1
IC404	409 018 5104	IC LA6458SS	1
IC405	409 074 1102	IC LC7561	1
C401	403 049 1609	ELECT 1U M 50V	1
C402	403 039 2906	ELECT 47U M 6.3V	1
C403	403 049 1609	ELECT 1U M 50V	1
C407	403 061 2608	POLYESTER 3900P K 50V	1
C408	403 061 2608	POLYESTER 3900P K 50V	1
C409	403 049 1609	ELECT 1U M 50V	1
C410	403 058 3700	POLYESTER 0.015U K 50V	1
C411	403 058 3700	POLYESTER 0.015U K 50V	1
C412	403 049 1609	ELECT 1U M 50V	1
C413	403 056 8608	POLYESTER 1000P K 50V	1
C414	403 056 8608	POLYESTER 1000P K 50V	1
C415	403 049 1609	ELECT 1U M 50V	1
C416	403 060 1008	POLYESTER 2700P K 50V	1
C417	403 060 1008	POLYESTER 2700P K 50V	1
C418	403 049 1609	ELECT 1U M 50V	1
C419	403 056 8608	POLYESTER 1000P K 50V	1
C420	403 056 8608	POLYESTER 1000P K 50V	1
C421	403 049 1609	ELECT 1U M 50V	1
C425	403 044 0201	ELECT 47U M 16V	1
C426	403 044 0201	ELECT 47U M 16V	1
C427	403 047 9607	ELECT 0.1U M 50V	1
C428	403 047 9607	ELECT 0.1U M 50V	1
C429	403 060 6607	POLYESTER 3300P K 50V	1
R401	401 024 7707	CARBON 100K JA 1/6W	1
R402	401 027 5908	CARBON 68K JA 1/6W	1
R403	401 027 5205	CARBON 680 JA 1/6W	1
R404	401 025 8703	CARBON 220K JA 1/6W	1
R409	401 025 4903	CARBON 180K JA 1/6W	1
R410	401 026 1307	CARBON 27K JA 1/6W	1
R411	401 024 8001	CARBON 1M JA 1/6W	1
R412	401 025 8703	CARBON 220K JA 1/6W	1
R413	401 025 4903	CARBON 180K JA 1/6W	1
R414	401 026 1307	CARBON 27K JA 1/6W	1
R415	401 024 8001	CARBON 1M JA 1/6W	1
R416	401 025 8703	CARBON 220K JA 1/6W	1
R417	401 025 4903	CARBON 180K JA 1/6W	1
R418	401 026 1307	CARBON 27K JA 1/6W	1

P.C.BOARD PARTS LIST(Continued)

Ref. No.	Part No.	Description	Q'ty
R419	401 024 8001	CARBON 1M JA 1/6W	1
R420	401 025 8703	CARBON 220K JA 1/6W	1
R421	401 025 4606	CARBON 18K JA 1/6W	1
R422	401 026 1000	CARBON 2.7K JA 1/6W	1
R423	401 024 7707	CARBON 100K JA 1/6W	1
R424	401 025 8703	CARBON 220K JA 1/6W	1
R425	401 024 7400	CARBON 10K JA 1/6W	1
R426	401 025 7805	CARBON 2.2K JA 1/6W	1
R427	401 027 3003	CARBON 56K JA 1/6W	1
R428	401 025 8703	CARBON 220K JA 1/6W	1
R433	401 012 4503	CARBON 100 JA 1/4W	1
R434	401 012 4503	CARBON 100 JA 1/4W	1
R438	401 027 5908	CARBON 68K JA 1/6W	1
	MAIN AMP. P.C.B. ASSY		
47	141-0-1939-20631	Main Amp. P.C.B. Assy	1
	4-2329-70441	Relay	1
	⚠ 4-2342-00340	Fuse F5.0A	2
	⚠ 4-2349-20580	Fuse T3.15A	2
	⚠ 4-2349-21570	Fuse T6.3A	2
	4-2352-01940	Fuse Clip	12
	111-2-6220-11100	Wire Wrap Terminal	10
	131-2-7103-52607	Label Fuse T3.15A X2	1
	131-2-7103-52615	Label Fuse F5.0A X 2	1
W501	4-2439-73064	Wire 3 Parallel	1
L501	4-2552-00650	AF Coil (2μH)	1
L502	4-2552-00650	AF Coil (2μH)	1
VR501	4-2222-01280	Potentiometer (B-100Ω)	1
VR502	4-2222-01280	Potentiometer (B-100Ω)	1
XH501	4-2369-73160	Plug 6P	1
D501	407 008 0405	DIODE GMB01-BT	1
D502	407 008 0405	DIODE GMB01-BT	1
D503	407 008 0405	DIODE GMB01-BT	1
D504	407 008 0405	DIODE GMB01-BT	1
D505	407 008 0405	DIODE GMB01-BT	1
D506	407 008 0405	DIODE GMB01-BT	1
D507	407 008 0405	DIODE GMB01-BT	1
D508	407 008 0405	DIODE GMB01-BT	1
D509	407 049 8507	ZENER DIODE GZA2.2X	1
D510	407 049 8507	ZENER DIODE GZA2.2X	1
D513	407 049 7807	ZENER DIODE GZA18Y	1
D514	407 049 7807	ZENER DIODE GZA18Y	1
D515	407 061 3207	DIODE 30D2	1
D516	407 061 3207	DIODE 30D2	1
D517	407 061 3207	DIODE 30D2	1
D518	407 061 3207	DIODE 30D2	1
D519	407 060 9606	DIODE 11E2	1
or	407 004 9105	DIODE DSF10C-BT	1
D520	407 050 4802	ZENER DIODE GZA5.1Y	1
D521	407 014 2509	DIODE 30DC1S	1
D522	407 014 2400	DIODE 30DC1RS	1
D524	407 049 7708	ZENER DIODE GZA18X	1
D529	407 005 4703	DIODE DS446	1
D530	407 005 4703	DIODE DS446	1
D531	407 005 4703	DIODE DS446	1
D532	407 005 4703	DIODE DS446	1
D533	407 061 3207	DIODE 30D2	1
D534	407 061 3207	DIODE 30D2	1
D540	407 060 9606	DIODE 11E2	1
or	407 004 9105	DIODE DSF10C-BT	1
Q501	405 011 0306	TR 2SC1583-F	1
Q502	405 011 0306	TR 2SC1583-F	1
Q503	405 004 4502	TR 2SA608-F-NP	1
Q504	405 004 4502	TR 2SA608-F-NP	1
Q505	405 013 7600	TR 2SC2291-F	1
Q506	405 013 7600	TR 2SC2291-F	1

Ref. No.	Part No.	Description	Q'ty
Q507	405 002 9103	TR 2SA1209-S	1
Q508	405 002 9103	TR 2SA1209-S	1
Q509	405 016 3906	TR 2SC2911-S	1
Q510	405 016 3906	TR 2SC2911-S	1
Q511	405 017 2502	TR 2SC3117-R	1
Q512	405 017 2502	TR 2SC3117-R	1
Q513	405 003 1502	TR 2SA1249-R	1
Q514	405 003 1502	TR 2SA1249-R	1
Q519	405 019 2708	TR 2SC536-F-NP	1
Q520	405 019 2708	TR 2SC536-F-NP	1
Q521	405 004 4502	TR 2SA608-F-NP	1
Q525	405 022 1101	TR 2SD1266-P	1
Q526	405 007 5100	TR 2SB560-E-MP	1
Q527	405 019 2708	TR 2SC536-F-NP	1
Q528	405 019 2708	TR 2SC536-F-NP	1
Q535	405 019 2708	TR 2SC536-F-NP	1
Q536	405 019 2708	TR 2SC536-F-NP	1
Q541	405 013 6801	TR 2SC2274-E	1
Q542	405 006 6504	TR 2SA984-E	1
Q543	405 007 7906	TR 2SB631-E	1
Q544	405 024 2809	TR 2SD600-E	1
C501	403 071 5903	CERAMIC 220P K 50V	1
C502	403 071 5903	CERAMIC 220P K 50V	1
C503	403 047 1502	ELECT 4.7U M 25V	1
C504	403 047 1502	ELECT 4.7U M 25V	1
C505	403 018 8509	CERAMIC 220P K 50V	1
C506	403 018 8509	CERAMIC 220P K 50V	1
C507	403 018 8509	CERAMIC 220P K 50V	1
C508	403 018 8509	CERAMIC 220P K 50V	1
C509	403 038 2303	ELECT 100U M 6.3V	1
C510	403 038 2303	ELECT 100U M 6.3V	1
C511	4-2239-71190	Capacitor 27PF 500V	1
C512	4-2239-71190	Capacitor 27PF 500V	1
C513	4-2239-72020	Ceram 3 PF 500V	1
C514	4-2239-72020	Ceram 3 PF 500V	1
C515	403 067 5603	MT-COMPO 0.1U J 50V	1
C516	403 067 5603	MT-COMPO 0.1U J 50V	1
C517	4-2239-71120	Capacitor 18PF 500V	1
C518	4-2239-71120	Capacitor 18PF 500V	1
C519	403 054 9706	ELECT 47U M 100V	1
C520	403 054 9706	ELECT 47U M 100V	1
C521	403 054 9706	ELECT 47U M 100V	1
C522	403 054 9706	ELECT 47U M 100V	1
C523	403 049 1609	ELECT 1U M 50V	1
C524	403 049 1609	ELECT 1U M 50V	1
C527	4-2239-72120	Ceram 220PF 500V K	1
C528	4-2239-72120	Ceram 220PF 500V K	1
C529	4-2239-72120	Ceram 220PF 500V K	1
C530	4-2239-72120	Ceram 220PF 500V K	1
C531	403 061 4404	POLYESTER 0.039U K 50V	1
C532	403 061 4404	POLYESTER 0.039U K 50V	1
C533	403 085 3407	NP-ELECT 47U M 10V	1
C534	403 044 8207	ELECT 10U M 25V	1
C541	403 044 8207	ELECT 10U M 25V	1
C542	403 044 8207	ELECT 10U M 25V	1
C543	403 044 8207	ELECT 10U M 25V	1
C544	403 044 8207	ELECT 10U M 25V	1
C545	403 045 0507	ELECT 100U M 25V	1
C546	403 045 0507	ELECT 100U M 25V	1
C547	404 012 5709	ELECT 4700U M 40V	1
C548	404 012 5709	ELECT 4700U M 40V	1
C549	404 012 7000	CERAMIC 0.01U P 500V	1
C550	404 012 7000	CERAMIC 0.01U P 500V	1
C551	404 012 7000	CERAMIC 0.01U P 500V	1
C552	404 012 7000	CERAMIC 0.01U P 500V	1
C553	404 012 7000	CERAMIC 0.01U P 500V	1

P.C.BOARD PARTS LIST (Continued)

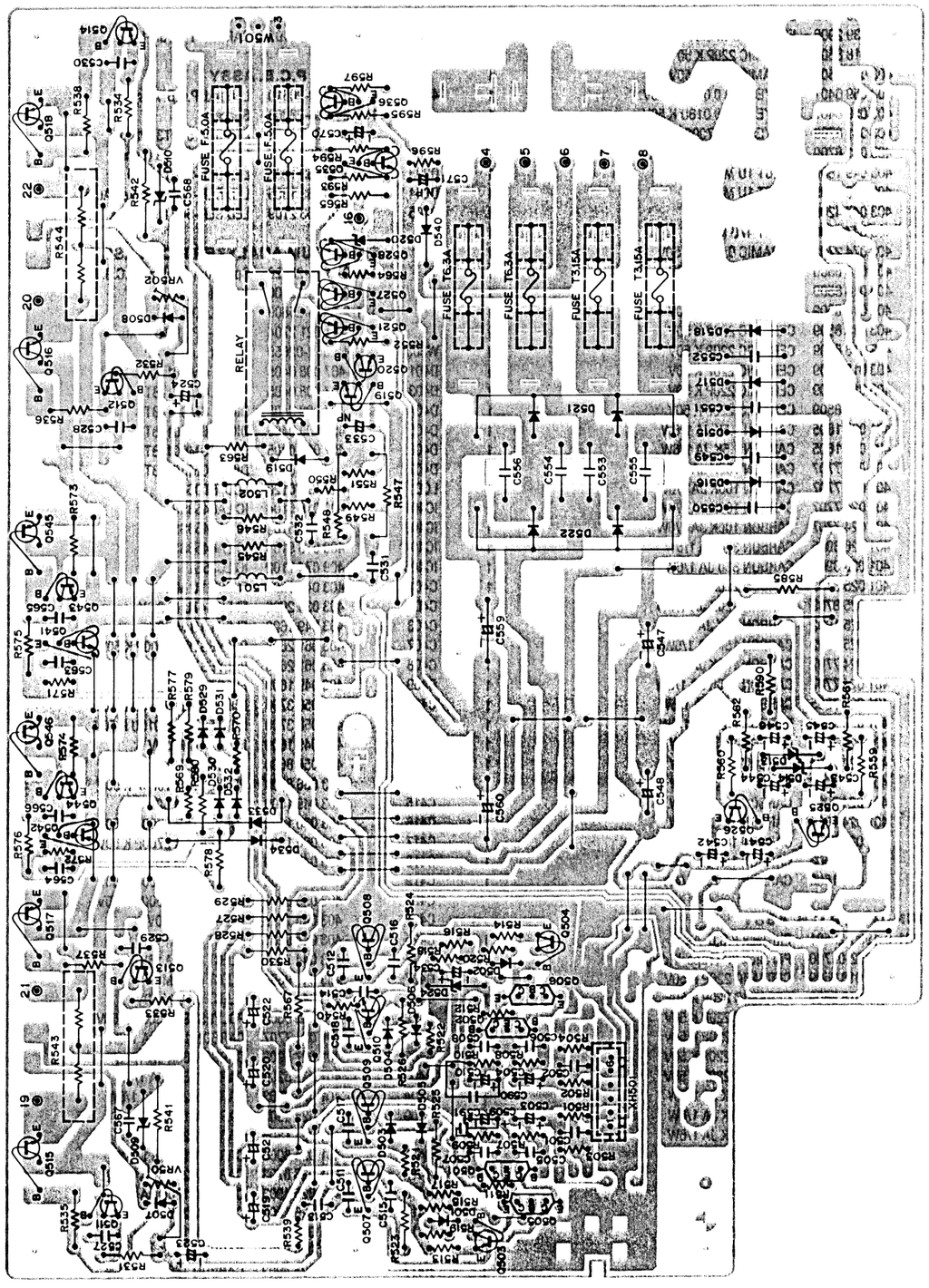
Ref. No.	Part No.	Description	Q'ty
C554	404 012 7000	CERAMIC 0.01U P 500V	1
C555	404 012 7000	CERAMIC 0.01U P 500V	1
C556	404 012 7000	CERAMIC 0.01U P 500V	1
C559	4-2239-72180	Elect 6800MF 72V	1
C560	4-2239-72180	Elect 6800MF 72V	1
C563	4-2239-72120	Ceram 220PF 500V K	1
C564	4-2239-72120	Ceram 220PF 500V K	1
C565	403 075 8504	CERAMIC 120P K 500V	1
C566	403 075 8504	CERAMIC 120P K 500V	1
C567	403 067 5603	MT-COMPO 0.1U J 50V	1
C568	403 067 5603	MT-COMPO 0.1U J 50V	1
C570	403 038 2303	ELECT 100U M 6.3V	1
C571	403 086 8104	NP-ELECT 4.7U M 50V	1
C590	403 018 8509	CERAMIC 220P K 50V	1
C591	403 018 8509	CERAMIC 220P K 50V	1
R501	401 024 7004	CARBON 1K JA 1/6W	1
R502	401 024 7004	CARBON 1K JA 1/6W	1
R503	401 024 7707	CARBON 100K JA 1/6W	1
R504	401 024 7707	CARBON 100K JA 1/6W	1
R507	401 027 5908	CARBON 68K JA 1/6W	1
R508	401 027 5908	CARBON 68K JA 1/6W	1
R509	401 027 2303	CARBON 560 JA 1/6W	1
R510	401 027 2303	CARBON 560 JA 1/6W	1
R511	401 027 8602	CARBON 8.2K JA 1/6W	1
R512	401 027 8602	CARBON 8.2K JA 1/6W	1
R513	401 027 2105	CARBON 56 JA 1/6W	1
R514	401 027 2105	CARBON 56 JA 1/6W	1
R515	401 026 7408	CARBON 39K JA 1/6W	1
R516	401 026 7408	CARBON 39K JA 1/6W	1
R517	401 027 8602	CARBON 8.2K JA 1/6W	1
R518	401 027 8602	CARBON 8.2K JA 1/6W	1
R519	401 027 2105	CARBON 56 JA 1/6W	1
R520	401 027 2105	CARBON 56 JA 1/6W	1
R521	401 026 4605	CARBON 33K JA 1/6W	1
R522	401 026 4605	CARBON 33K JA 1/6W	1
R523	402 015 5603	FUSIBLE RES 82 J- 1/4W	1
R524	402 015 5603	FUSIBLE RES 82 J- 1/4W	1
R525	402 015 9700	FUSIBLE RES 82 J- 1/4W	1
R526	402 015 5603	FUSIBLE RES 82 J- 1/4W	1
R527	402 015 3005	FUSIBLE RES 10 J- 1/4W	1
R528	402 015 3005	FUSIBLE RES 10 J- 1/4W	1
R529	402 015 3005	FUSIBLE RES 10 J- 1/4W	1
R530	402 015 3005	FUSIBLE RES 10 J- 1/4W	1
R531	402 015 9205	FUSIBLE RES 47 J- 1/4W	1
R532	402 015 9205	FUSIBLE RES 47 J- 1/4W	1
R533	402 015 4705	FUSIBLE RES 47 J- 1/4W	1
R534	402 015 9205	FUSIBLE RES 47 J- 1/4W	1
R535	402 015 3708	FUSIBLE RES 2.2 J- 1/4W	1
R536	402 015 3708	FUSIBLE RES 2.2 J- 1/4W	1
R537	402 015 8406	FUSIBLE RES 2.2 J- 1/4W	1
R538	402 015 8406	FUSIBLE RES 2.2 J- 1/4W	1
R539	401 027 5908	CARBON 68K JA 1/6W	1
R540	401 027 5908	CARBON 68K JA 1/6W	1
R541	402 016 5107	FUSIBLE RES 330 J- 1/2W	1
R542	402 016 5107	FUSIBLE RES 330 J- 1/2W	1
R543	4-2219-70370	Cement 0.22x2 5W	1
R544	4-2219-70370	Cement 0.22x2 5W	1
R545	401 019 6203	CARBON 4.7 JA 1/4W	1
R546	401 019 6203	CARBON 4.7 JA 1/4W	1
R547	401 058 1207	OXIDE-MT 10 JB 1W	1
R548	401 058 1207	OXIDE-MT 10 JB 1W	1
R549	401 024 7707	CARBON 100K JA 1/6W	1
R550	401 024 7707	CARBON 100K JA 1/6W	1
R551	401 025 4606	CARBON 18K JA 1/6W	1
R552	401 020 2904	CARBON 47K JA 1/4W	1
R559	401 023 1706	CARBON 820 JA 1/4W	1
R560	401 023 1706	CARBON 820 JA 1/4W	1
R561	401 016 3809	CARBON 2.2K JA 1/4W	1
R562	401 016 3809	CARBON 2.2K JA 1/4W	1
R563	402 016 5305	FUSIBLE RES 390 J- 1/2W	1
R564	401 025 8703	CARBON 220K JA 1/6W	1
R565	401 018 4903	CARBON 33K JA 1/4W	1
R567	401 062 2405	OXIDE-MT 4.7K JB 1W	1
R569	401 024 7400	CARBON 10K JA 1/6W	1
R570	401 024 7400	CARBON 10K JA 1/6W	1
R571	401 027 0507	CARBON 470K JA 1/6W	1
R572	401 027 0507	CARBON 470K JA 1/6W	1
R573	401 021 3009	CARBON 5.6K JA 1/4W	1
R574	401 021 3009	CARBON 5.6K JA 1/4W	1
R575	401 022 1905	CARBON 680 JA 1/4W	1
R576	401 022 1905	CARBON 680 JA 1/4W	1
R577	401 013 5301	CARBON 1.2K JA 1/4W	1
R578	401 013 5301	CARBON 1.2K JA 1/4W	1
R579	401 015 2704	CARBON 1.8K JA 1/4W	1
R580	401 015 2704	CARBON 1.8K JA 1/4W	1
R585	401 063 0202	OXIDE-MT 68 JB 1W	1
R590	401 055 0005	OXIDE-MT 120 JB 1/2W	1
R593	401 016 4806	CARBON 22K JA 1/4W	1
R594	401 020 3901	CARBON 470K JA 1/4W	1
R595	401 016 4806	CARBON 22K JA 1/4W	1
R596	401 025 1902	CARBON 15K JA 1/6W	1
R597	401 018 4903	CARBON 33K JA 1/4W	1
		POWER SW. P.C.B. ASSY	
48	141-0-1939-20641	Power SW. P.C.B. Assy	1
	4-2352-00970	Headphone Jack 3P (Headphones)	1
	4-2372-00830	EC Terminal 1P	2
	111-2-6220-11100	Wire Wrap Terminal	2
	131-2-6114-00200	Cover Safety	1
W701	4-2439-73063	Wire 6 Parallel	1
S701	⚠ 4-2319-76340	SW Push Power (Power)	1
S702	4-2319-77341	SW Push 1 Key (Speaker A)	1
S703	4-2319-77341	SW Push 1 Key (Speaker B)	1
C701	⚠ 4-2239-70970	Capacitor 0.01MF400V	1
R701	401 069 3009	OXIDE-MT 680 JA 2W	1
R702	401 069 3009	OXIDE-MT 680 JA 2W	1
R703	401 017 0807	CARBON 270 JA 1/4W	1
R704	401 017 0807	CARBON 270 JA 1/4W	1
R705	401 017 0807	CARBON 270 JA 1/4W	1
R706	401 017 0807	CARBON 270 JA 1/4W	1
		SPEAKER TERMINAL P.C.B. ASSY	
49	141-0-1939-20651	Speaker Terminal P.C.B. Assy	1
	4-2372-01160	SP 8P Terminal (Speaker)	1
W702	4-2439-73065	Wire 2 Parallel	1
C703	403 069 1504	CERAMIC 1000P K 50V	1
C704	403 069 1504	CERAMIC 1000P K 50V	1
C705	403 069 1504	CERAMIC 1000P K 50V	1
C706	403 069 1504	CERAMIC 1000P K 50V	1
		BIAS P.C.B. ASSY	
50	141-0-1939-20680	Bias P.C.B. Assy	2
D601	407 008 0405	DIODE GMB01-BT	1
Q601	405 026 0803	TR 2SD947	1
		LAMP P.C.B. ASSY	
51	141-0-1939-23290	Lamp P.C.B. Assy	1
	111-2-6220-11100	Wire Wrap Terminal	4

NOTES:

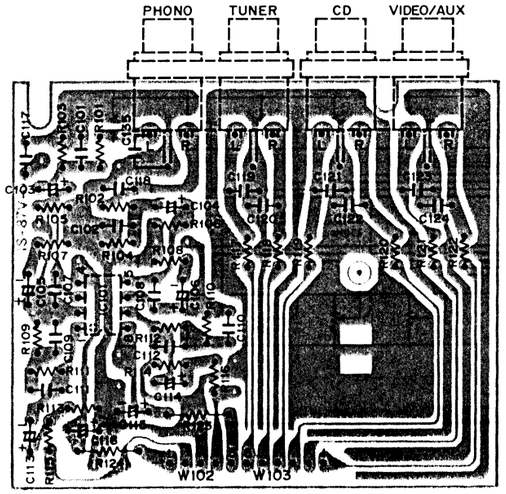
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

MAIN AMPLIFIER PRINTED CIRCUIT BOARD

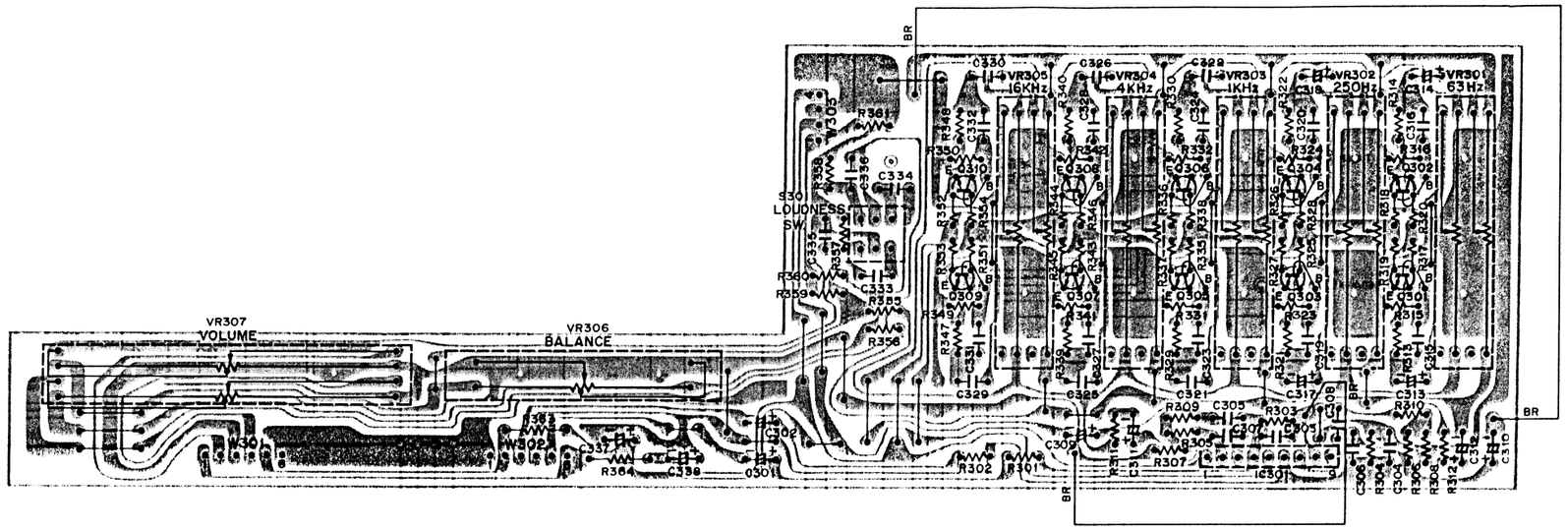
(BOTTOM VIEW)



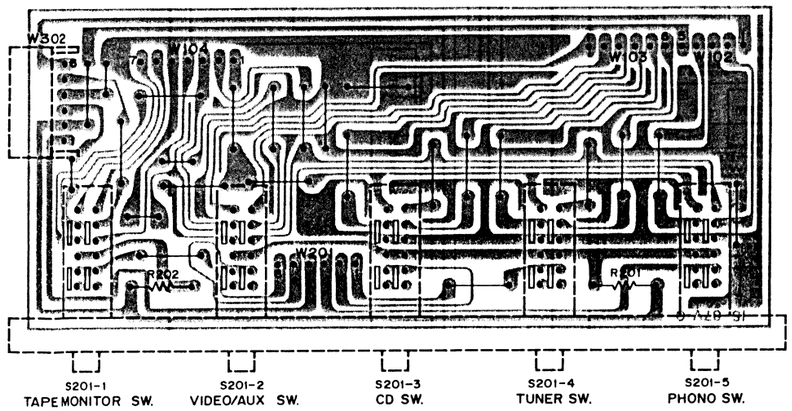
PHONO EQ. P.C.BOARD
(BOTTOM VIEW)



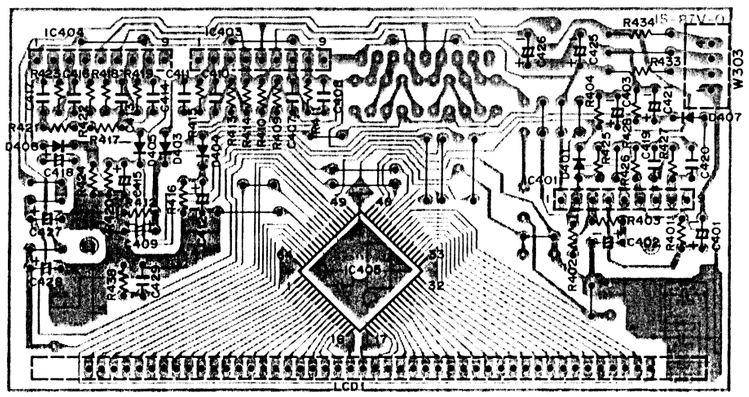
GRAPHIC EQUALIZER PRINTED CIRCUIT BOARD
(BOTTOM VIEW)



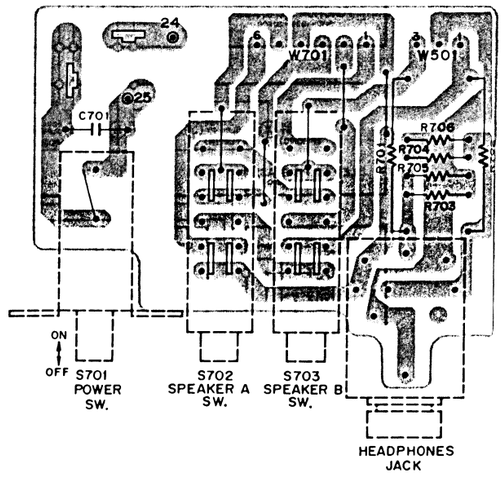
FUNCTION P.C.BOARD
(BOTTOM VIEW)



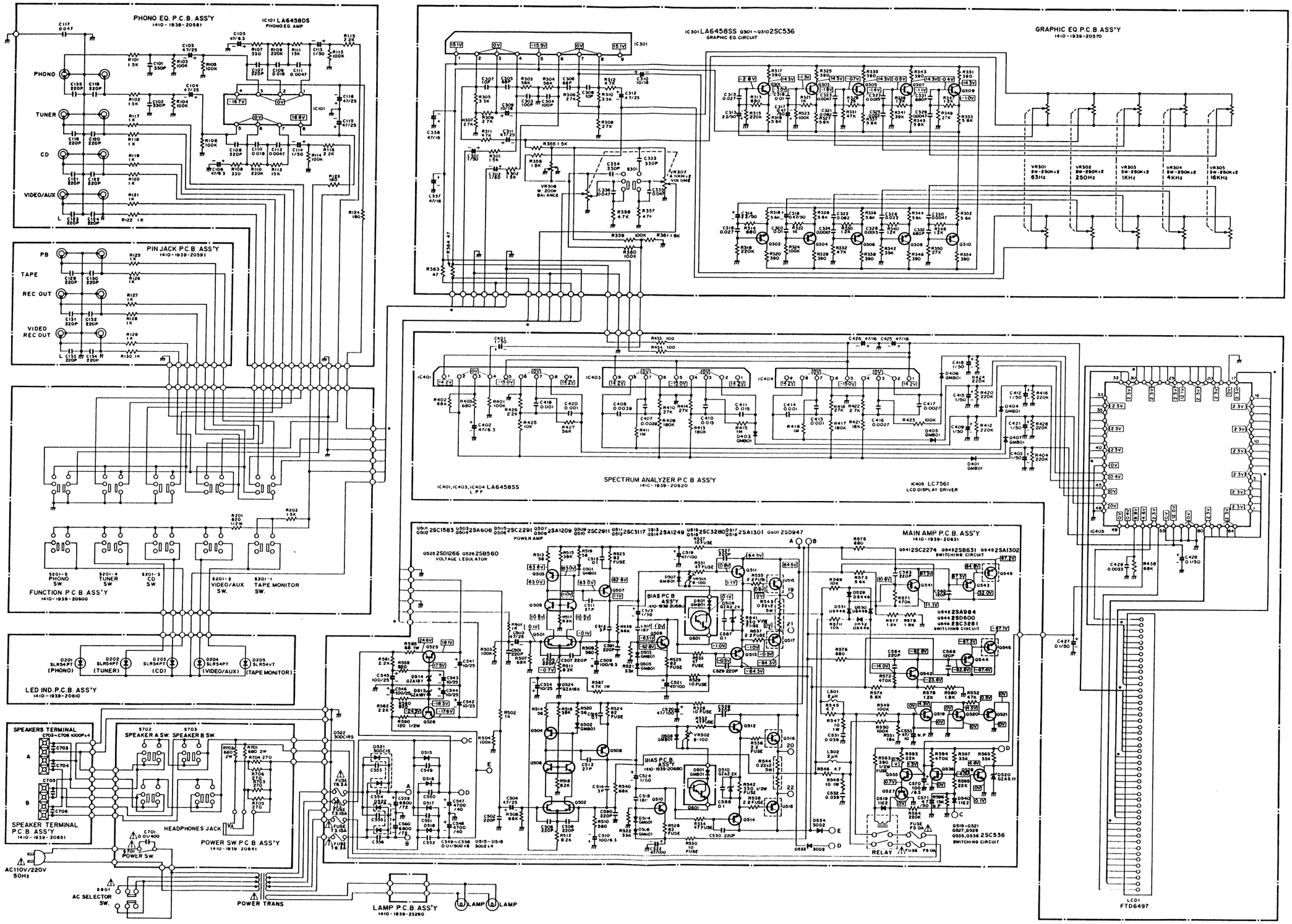
SPECTRUM ANALYZER P.C.BOARD
(BOTTOM VIEW)



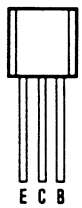
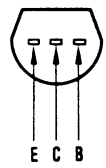
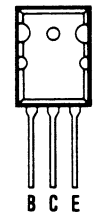
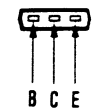
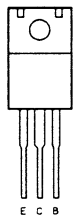
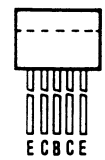
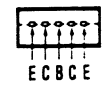
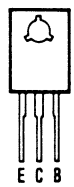
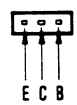
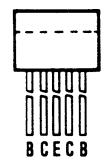
POWER SWITCH P.C.BOARD
(BOTTOM VIEW)



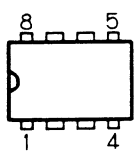
SCHEMATIC DIAGRAM



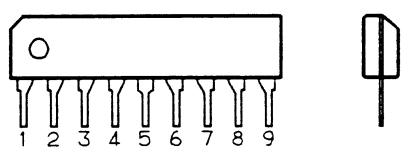
SEMICONDUCTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA 608 2SA 984 2SB 560 2SC 536 2SC 2274			2SA 1301 2SA 1302 2SC 3280 2SC 3281		
2SD 1266			2SC 2291		
2SA 1209 2SA 1249 2SB 631 2SC 2911 2SC 3117 2SD 600 2SD 947			2SC 1583		
TERMINAL NAME					
B → BASE C → COLLECTOR E → EMITTER					

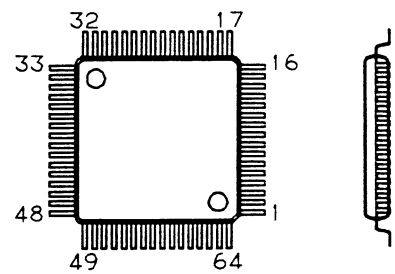
LA 6458 DS TOP VIEW



LA 6458 SS TOP/SIDE VIEW



LC 7561 TOP/SIDE VIEW



SWITCH POSITION TABLE

No.	Name	Position	No.	Name	Position
S201-1	TAPE MONITOR Switch	OFF	S301	LOUDNESS Switch	OFF
S201-2	VIDEO/AUX Switch	OFF	S701	POWER Switch	OFF
S201-3	COMPACT DISC Switch	OFF	S702	SPEAKER A Switch	OFF
S201-4	TUNER Switch	OFF	S703	SPEAKER B Switch	OFF
S201-5	PHONO Switch	OFF	S801	AC SELECTOR Switch	220V

NOTES:

1. All resistors values are indicated in "ohm" ($K=10^3$, $M=10^6$).
2. All capacitors values are indicated in "μF" ($P=10^{-12}$).
3. All voltages indicated on the schematics are measured under the following conditions.
   a. Use a V.T.V.M.
   b. All voltages ±10 % with respect to chassis ground
   c. No signals at input terminals
   d. AC input at 220 volts 50 Hz
4. This is a basic schematic diagram.

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